

New York State Department of Transportation

Yellow Flag NB2258W003

By: Alex Abreu

Flag Date: June 21, 2022

Superseding Information:

No Flags Superseded

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: June 21, 2022 2:00:00 PM

Of: NYSDOT Region 11

Signature Information

Signature: Alex Abreu, P.E. 099761-1

Date: July 19, 2022

Reviewed By: Robert Kemp

Date: July 20, 2022

Attachments: 9

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 67			
	107 - Steel Open Girder/Beam	781	ft
	PR831 - Steel Beam End	32	each

Flagged Condition Description

This Yellow Flag No. NB2258W003 is NEW.

Location: Span 67, Girder G12 at Pier 66 over 3rd Avenue Eastbound.

Description: The end of Girder G12 on Span 67 side of Pier 66 exhibits section loss for 6" H x 6" W area in the girder web directly above the bearing with average 0.32" remaining thickness measured (RTM) within area resulting in approximately 49% localized section loss (Photos 4 and 7).

The end of the girder web, approximately 5" high from the bottom flange above the bearing exhibits 3" H x 1-1/2" W corrosion hole in the web (Photo 5). The lower web of the girder on the end side of the bearing exhibits section loss above the bottom flange for 1/16" deep for 12" L x 3"-5" H followed by 1/8" deep for 12" L x 2" H at the left face and 1/16" deep for 12" L x up to 5" H at the right face (Photo 8). The remaining web height along the guide angles (approximately 16" H area) exhibits 1/16" deep section loss for 3" wide at the left face and 2" wide at the right face (Photos 6 and 9).

The right-side bottom flange exhibits 1/16" deep section loss at the bottom of the flange on the end side of the bearing for 12" L x 5" W. The web stiffener below the end diaphragm connection at the right face exhibits up to 20% section loss for the full height of the stiffener.

The overall section loss for the web bearing area is approximately 35% and shear web area is approximately 37%. Refer to Yellow Flag Condition Sketch (Photo 2) for more details.

This is a new flag.

Notes:

1. The girder web behind the guide angles could not be inspected since the guide angles cover these areas.
2. The bearing and pedestal below the girder exhibit no significant defects.
3. Adjacent Girders G11 and G13 both have previous web repairs and are in good condition.
4. The girder on the Span 66 side of the pier at this location (identified as Girder G9 in the framing plan), is framed into the pier-cap with no significant defects at the girder and connection angles.
5. A double left lane closure at 3rd Avenue In-Bound (Hugh Carey Tunnel) between 58th and 59th Streets, and a 35' bucket truck are required to access this location.

Flag Photographs

Photo Number: 1

Photo Filename: 22_Flag Location Plan.jpg

Gowanus Expressway
2022 Biennial Inspection - Field Sketch

BIN: 1065318

Team: AA/TS

Date: 06/21/2022

Span: 67

Location: Girder G12 at Pier 66

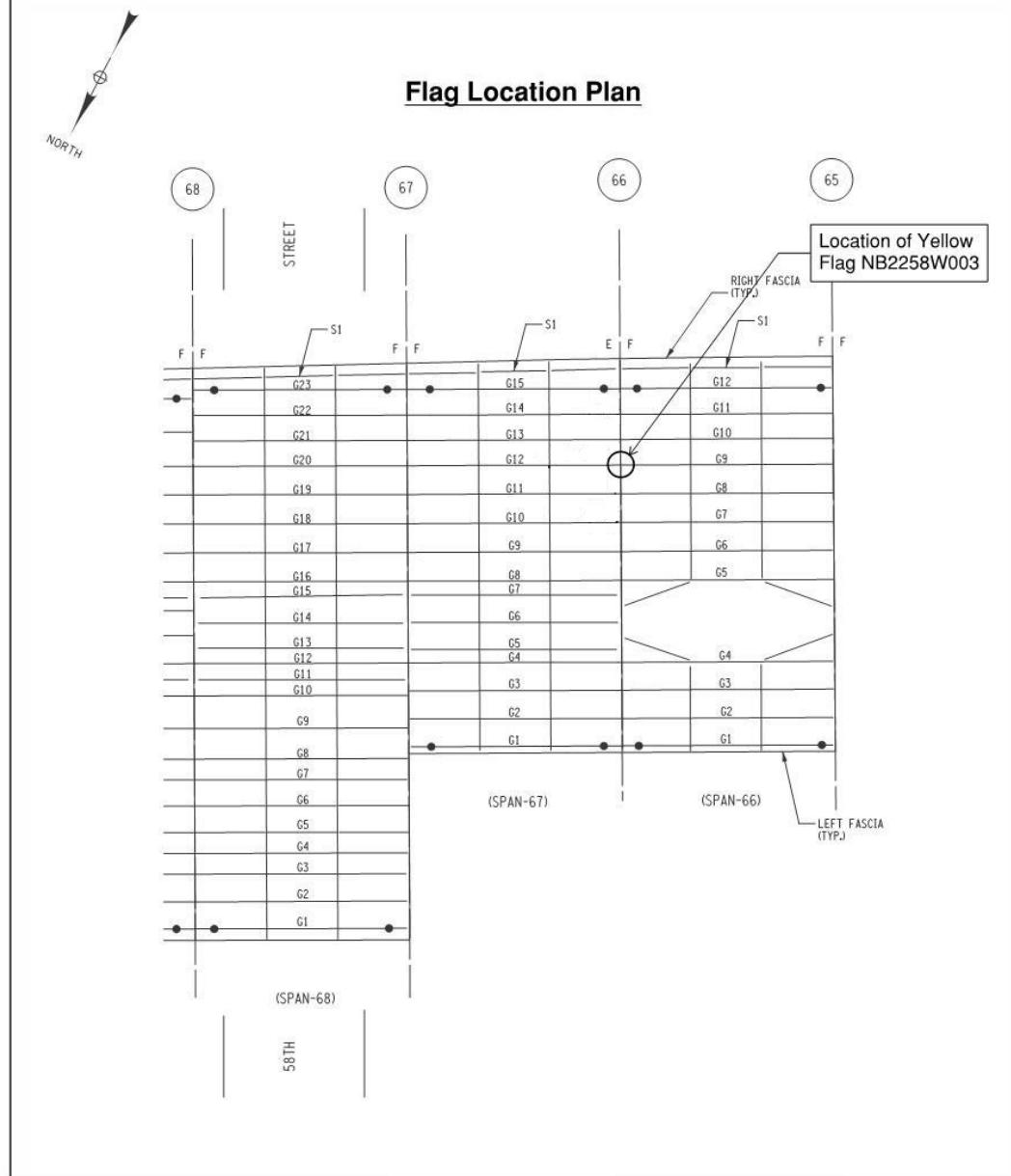
**WSP****Attachment Description: Flag Location Plan**

Photo Number: 2

Photo Filename: 22_Span 67_Girder G12_Connection Detail.jpg

Gowanus Expressway
2022 Biennial Inspection - Field Sketch

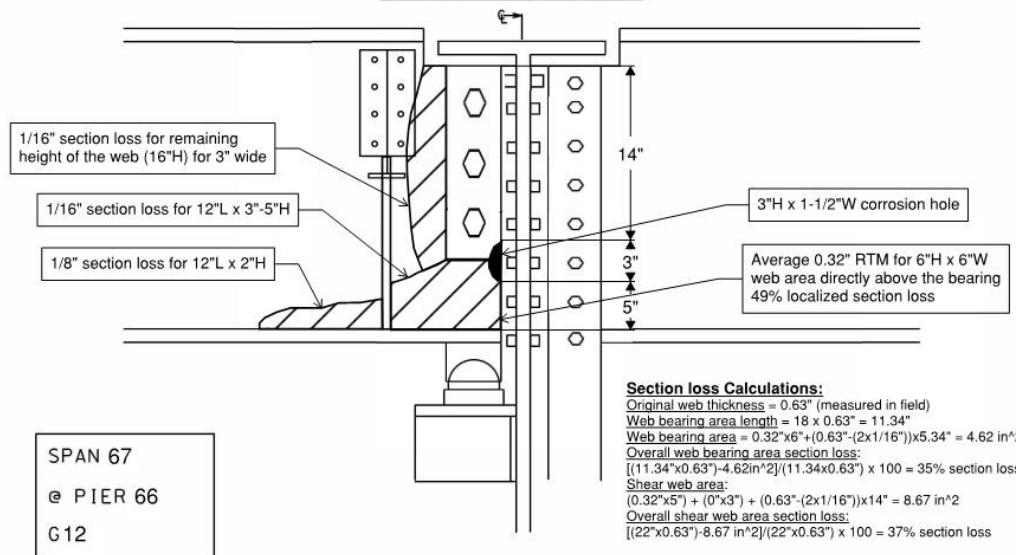
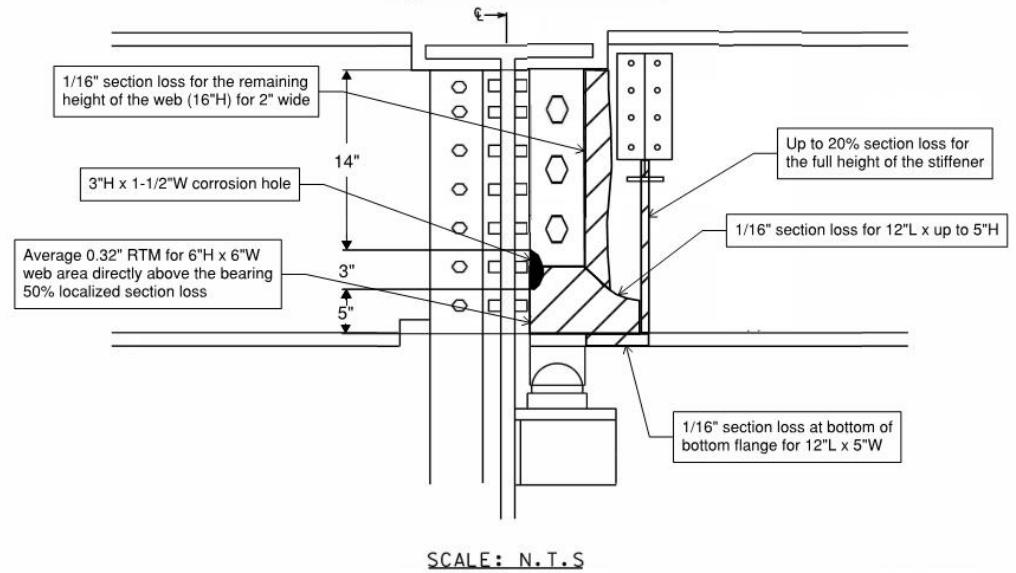
BIN: 1065318

Team: AA/TS

Date: 6/21/2022

Span: 67

Location: Girder G12 at Pier 66

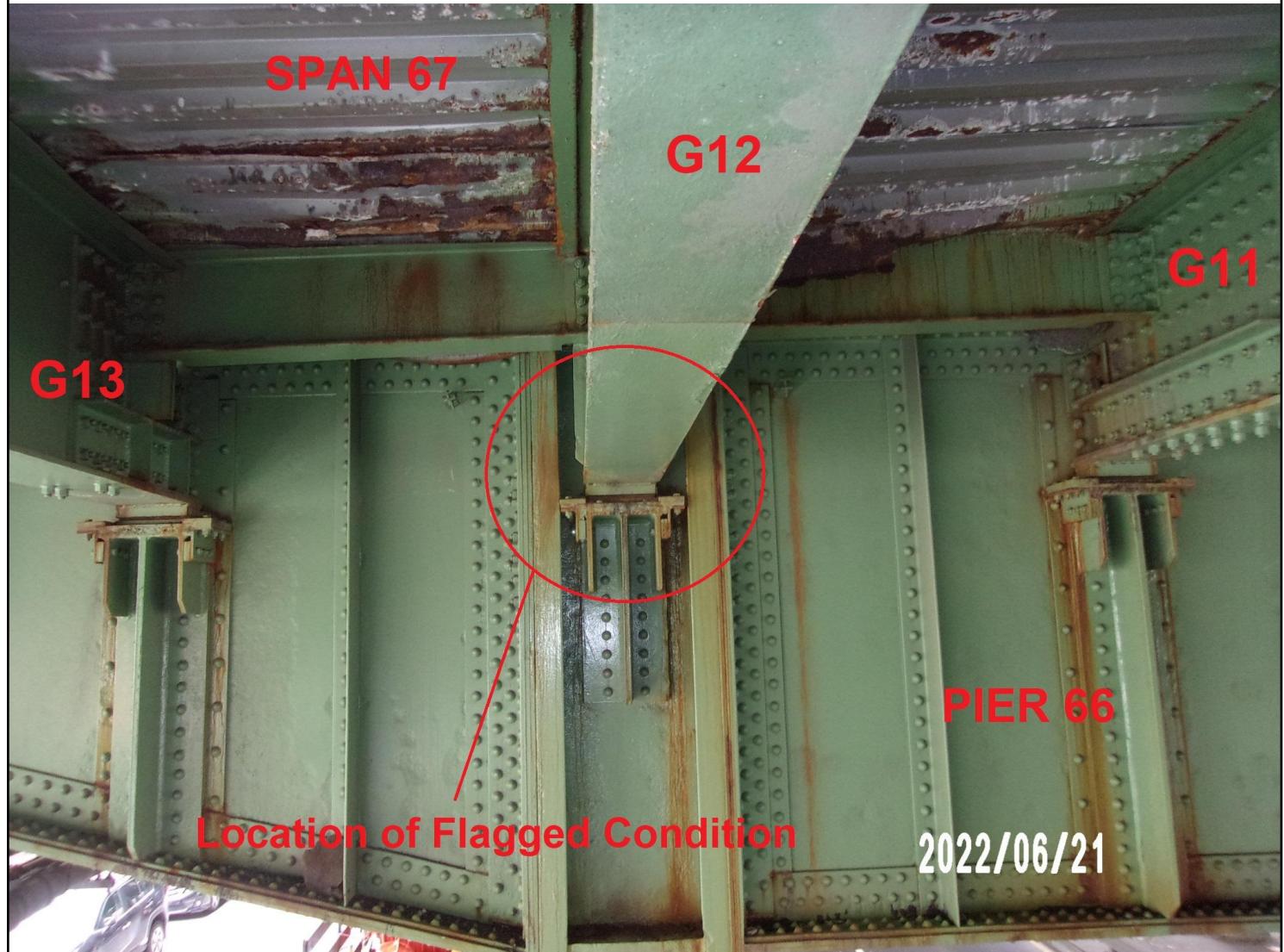
Left Face of Girder G12Right Face of Girder G12

WSP

Attachment Description: Yellow Flag Condition Sketch

Photo Number: 3

Photo Filename: 22_113_0804.JPG



Attachment Description: General view of the flagged location at Girder G12 in Span 67 at Pier 66. Looking Begin.

Photo Number: 4

Photo Filename: 22_113_0807.JPG



Attachment Description: The right face of Girder G12 in Span 67 at Pier 66. The lower web of the girder exhibits approximately 49% section loss for 6" H x 6" W area in the girder web directly above the bearing. Looking Left.

Photo Number: **5**Photo Filename: **22_113_0808.JPG**

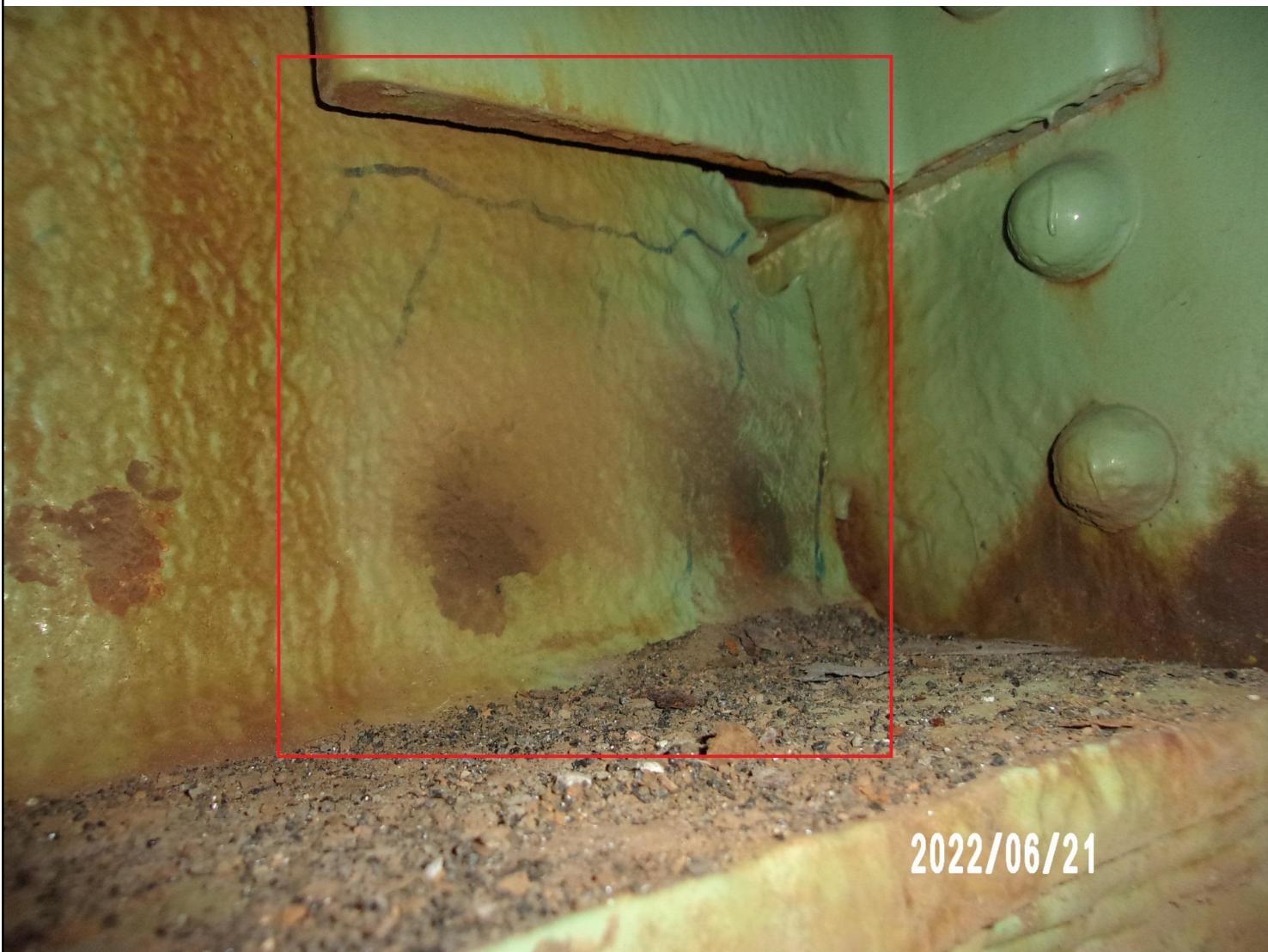
Attachment Description: The right face of Girder G12 in Span 67 at Pier 66. The end of the girder web approximately 5" high from the bottom flange above the bearing exhibits 3" H x 1-1/2" W corrosion hole in the web. Looking Left.

Photo Number: **6**Photo Filename: **22_113_0813.JPG**

Attachment Description: The right face of Girder G12 in Span 67 at Pier 66. The girder web exhibits 1/16" section loss for the remaining web height along the guide angle and in the lower web above the bottom flange in front of the bearing. Looking Left.

Photo Number: 7

Photo Filename: 22_113_0816.JPG



2022/06/21

Attachment Description: The left face of Girder G12 in Span 67 at Pier 66. The lower web of the girder exhibits approximately 49% section loss for 6" H x 6" W area in the girder web directly above the bearing. Looking Right.

Photo Number: 8

Photo Filename: 22_113_0820.JPG



Attachment Description: The left face of Girder G12 in Span 67 at Pier 66. The lower web of the girder in front of the bearing exhibits section loss above the bottom flange for 1/16" deep for 12" L x 3"-5" H followed by 1/8" deep section loss for 12"L x 2"H. Looking Right.

Photo Number: **9**Photo Filename: **22_113_0821.JPG**

Attachment Description: The left face of Girder G12 in Span 67 at Pier 66. The girder web exhibits 1/16" section loss for the remaining web height along the guide angle and in the lower web above the bottom flange in front of the bearing. Looking Right.